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CUSTOMER NUMBER: 38327

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THE COMMISSIONER OF PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

Sir:

Transmitted herewith for filing is the Utility patent application of:

INVENTOR:	MASATAKA SHIRAI AND TOSHIKI SUGAWARA
FOR:	CHEMICAL SUBSTANCE MEASURING APPARATUS USING OPTICAL WAVEGUIDES

Enclosed are:

- 12 sheets of formal informal drawings.
- Transmittal of Japanese application 2003-148870 to claim priority date of May 27, 2003.
- An Executed Declaration.
- An Information Disclosure Statement
- An assignment executed by inventors to Hitachi, Ltd.
- The filing fee is calculated as shown below:

FOR	NUMBER FILED	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL CLAIMS	20	-20	x\$18 =	0.00
INDEPENDENT CLAIMS	3	-3	x\$86 =	0.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+\$290 =
		BASIC FEE		\$770.00
		TOTAL OF ABOVE		770.00
REDUCTION BY ½ FOR FILING BY SMALL ENTITY (note 37 C.F.R. §§ 1.9, 1.27, 1.28). IF APPLICABLE, VERIFIED STATEMENT MUST BE ATTACHED				
		TOTAL		770.00

- A check in the amount of **\$810.00** to cover the filing fee and assignment fee is enclosed.
- The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 C.F.R. § 1.16 and 1.17, or credit any overpayment to **Deposit Account Number 08-1480**.

Respectfully submitted,

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